

CLAIMS:

1. A transflective liquid crystal display panel, comprising:

a reflective region for performing reflective display;

and

a transmissive region for performing transmissive display,

the reflective region and the transmissive region being provided for each pixel, and

a diffuser process being performed only in a portion corresponding to the reflective region.

2. The transflective liquid crystal display panel of claim 1, further comprising a color filter having:

a colored layer formed in a portion corresponding to both the transmissive region and the reflective region; and

a transparent layer formed only in a portion corresponding to the reflective region,

wherein the diffuser process is performed only in the portion corresponding to the reflective region, by using at least part of the transparent layer as a diffuser processed layer.

3. The transflective liquid crystal display panel of

claim 2, wherein

the color filter in the reflective region has an aperture through the colored layer, and a transparent layer is formed in the aperture.

4. The transflective liquid crystal display panel of claim 2, wherein

a thickness of the colored layer in the color filter is thinner in the reflective region than in the transmissive region.

5. The transflective liquid crystal display panel of claim 4, wherein

a thickness of the colored layer in the transmissive region is twice as thick as that in the reflective region.

6. The transflective liquid crystal display panel of claim 2, wherein

the color filter has a step difference between a portion corresponding to the reflective region and a portion corresponding to the transmissive region, and the step difference causes a thickness of the liquid crystal layer in the reflective region to be thinner than that in the transmissive region.

7. The transflective liquid crystal display of claim 6, further comprising:

a transparent electrode formed in the portion corresponding to the transmissive region; and

a reflective electrode formed in the portion corresponding to the reflective region,

wherein a step difference is created between the transparent electrode and the reflective electrode, and the step-difference sets a thickness ratio of the liquid crystal layer between the reflective region and the transmissive region.

8. The transflective liquid crystal display panel of claim 6, wherein

a thickness of the liquid crystal layer in the transmissive region is twice as thick as that in the reflective region.

9. A 2D/3D switching type liquid crystal display panel, comprising:

display image generating means, capable of carrying out 2D display and 3D display, for generating a display image according to input image data;

parallax barrier means for giving a specific viewing angle to the display image in carrying out 3D display, so

as to obtain a 3D effect; and

switching means for activating and inactivating the effect of the parallax barrier means, so as to switch 2D display and 3D display,

said display image generating means being a transflective liquid crystal display panel including:

a reflective region for performing reflective display; and

a transmissive region for performing transmissive display,

the reflective region and the transmissive region being provided for each pixel, and

a diffuser process being performed only in a portion corresponding to the reflective region.

10. A 2D/3D switching type liquid crystal display, comprising a 2D/3D switching type liquid crystal display panel including:

display image generating means, capable of carrying out 2D display and 3D display, for generating a display image according to input image data;

parallax barrier means for giving a specific viewing angle to the display image in carrying out 3D display, so as to obtain a 3D effect; and

switching means for activating and inactivating the

effect of the parallax barrier means, so as to switch 2D display and 3D display,

said display image generating means being a transflective liquid crystal display panel including:

a reflective region for performing reflective display;
and

a transmissive region for performing transmissive display,

the reflective region and the transmissive region being provided for each pixel, and

a diffuser process being performed only in a portion corresponding to the reflective region.